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# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

October 12, 2009

Randy Marriott  
Marriott Rock Products, LLC.  
5238 West 2150 North  
Ogden, Utah 84404

Subject: Second Review of Notice of Intention to Commence Large Mining Operations, Marriott Rock Products, LLC., Rocky Point Gravel Mine, M/003/0079, Box Elder County, Utah

Dear Mr. Marriott:

The Division has completed a review of your Notice of Intention to Commence Large Mining Operations for the Rocky Point Mine, which was received May 19, 2009. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion. Please address only those items requested in the attached technical review by sending replacement pages of the original mining notice using redline and strikeout text, so we can see what changes have been made. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.

The Division will suspend further review of the Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me at 801-538-5261 or Leslie Heppler at 801-538-5257. Thank you for your cooperation in completing this permitting action.

Sincerely,

Paul B. Baker  
Minerals Program Manager

PBB:lah:pb

Attachment: Review

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**THIRD REVIEW OF NOTICE OF INTENTION  
TO COMMENCE LARGE MINING OPERATIONS**

**Marriott Rock Products  
Rocky Point Mine**

**M/003/0079  
October 12, 2009**

**General Comments:**

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
1	General	Submittal should be formatted to easily incorporate additional revisions and amendments.		

**R647-4-105 - Maps, Drawings & Photographs**

**General Map Comments**

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
2	All	Please label all cross sections with slope angles. As currently shown the overall slope will be less than 45 degrees, but the text implies a toe to crest angle of 45 degrees.	lah	
3	All	Include an alpha-numeric designation under the "Map ID" and follow up with the reference to the text. It is difficult to refer to 2 different maps with the same name	lah	

**105.2 - Surface facilities map**

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
4	Surface facilities map	Include all items shown on the facilities surety sheet on the new map. (Note which items are mobile.)	lah	
5	Surface facilities map	Latest map has different scales, 1:1,800 or 1:2,400 and a bar scale.	lah	
6	Page 7 Para ?	More detail is needed of the 4000 gal of fuel to be stored on site. Include how the containment area is lined, the percentage capacity of the total fuel stored onsite that will be in the containment area , etc.	lah	

**105.3 - Drawings or Cross Sections (slopes, roads, pads, etc.)**

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
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Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
7	Geologic Cross section	Add a title block, label the cross section, show where the mine is on the cross section.	lah	
8	Watershed Map	More detail is needed. Several of the watersheds don't have arrows to show flow direction, and no detail shown on how to keep the sediment out of the canal. It is unclear from the permit how the phase 1 and phase 2 mining plans will impact the watersheds	lah	
9	Full Cross section	Keep the vertical exaggeration consistent with the other cross sections. There is no purpose in adding the vertical exaggeration. Show canal and pipeline locations on the cross section.	lah	
10	All Cross sections	Include the abbreviations used on the cross sections in the legend for the cross sections. (include BH, BW and BFA)	lah	
11	Reclaim Map Phase 1 & 2	Legend states "High pressure gasline" yet there are two shown on the map. Make gas line plural if there are two gas lines as shown on the maps.	lah	

#### 106.1 - Minerals mined

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
12	Page 10 Para 1	See Comment 11 from February 24, 2009. If only Phase 1 is to be bonded for, please include a bond map that clearly shows areas that will be bonded and disturbed during Phase 1. While the Proposed Mining Phases Map shows the phases, it needs to be clear on this map that mining will only occur in the Phase 1 area at this time.	lah	
13	Page 10 Para 2 & 4	Include maximum peak particle velocity that will not be exceeded for the pipeline and canal. Please state the value in inches per second.	lah	

#### 106.2 - Type of operations conducted, mining method, processing etc.

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
14	Page 10	As written "...unconsolidated materials are scraped of any vegetation." Please reword to say that "all available topsoil, growth medium and remaining vegetation will be stockpiled."		

#### 106.3 - Estimated acreages disturbed, reclaimed, annually

Comm ent #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action
15	Page 11 para 1	As noted above, show bonded area on map of 35.5 acres	lah	

#### 106.8 - Depth to groundwater, extent of overburden, geology

Comment #	Sheet/Page/ Map/Table #	Comments	Initials	Review Action

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Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
16	Page 14	Nothing is written about the geomechanical properties of the rock to be mined, but the text notes "landslides." The plan needs to include how the mining operations will deal with the impact if a landslide is encountered or induced, what monitoring is to be done, and what engineering was done to determine the slope stability of the mine.	lah	

#### 109.4 - Slope stability, erosion control, air quality, safety

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
17	Page 20	Paragraph does not match cross sections.	lah	
18	Page 20	As written "It is possible that bench face angles will be steeper . . .". The bond prices will increase if the bench face angles are greater than 1H:1V.	lah	
19	Page 20	The plan says, "...the slopes will likely be stable." If it is possible that the slopes are not stable then a geotechnical assessment needs to be done before there is a problem.	lah	
20	Page 21	As written above, include maximum peak particle velocity in inches per second not to be exceeded for the pipeline and canal.	lah	